

Triboelectric Face Mask



Face masks can arrest the transmission of COVID viruses. Whereas healthcare professionals can use the special and high technical quality medical masks, for the general public, a mask with moderate filtering efficiency should suffice, provided one need not compromise comfort, particularly during wearing for long hours.

The snug fit Deltoid™ shaped design of the mask creates enough space in front of the mouth while speaking, causing no speech distortion, no fogging on glasses due to leaking of exhaled breath, and indeed, packs well all around, leaving practically no room for leakage while breathing. Another important advantage is its high breathability allowing one to wear without any discomfort. Further, the fabric layers such that there is a possibility of deactivating pathogens sheerly by the electric charges that may prevail under mild friction due to the fabrics' triboelectric nature.



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Design & Testing:
10 April - 10 May, 2020



IP protection:
15 May 2020



License agreement:
19 May 2020



Product Launch:
15 August 2020

The technology has been transferred to Camellia Clothing Ltd., a Bangalore based garment company, to produce and market these face mask through different distribution channels throughout India.

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